$$V_{out} = V_{out}$$

$$(1 + w^{2}R^{2}C^{2})^{\frac{1}{2}}$$

$$(\frac{1}{2})^{2} = 1 + w^{2}R^{2}C^{2}$$

$$(\frac{1}{4} + \frac{1}{4}w^{2}R^{2}C^{2} = 4) 4$$

$$w^{2}R^{2}C^{2} = 3$$

$$(2\pi)^{2}f^{2}R^{2}C^{2} = 3$$

$$f = \frac{\sqrt{3}}{2\pi RC}$$

RC high pass hundort